

Annual Subject Index

2, 4-bis (1, 1-dimethylethyl) Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162	Albumin <i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506
3,3'-dihexyloxacarbocyanine Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34	Alloxan Correlation of uric acid levels and purine metabolism enzyme activities in plasma and liver tissues of diabetic rats	433
293T cells Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells	466	Alphonso Determination of fruit quality of calcium carbide induced ripening in mango (<i>Mangifera indica</i> L. cv. Alphonso) by physiological, biochemical, bio-enzymatic and elemental composition analysis (EDX)	205
4T1 cells Mild and transient heat shock enhances DNA integration following lipofection of recombinant plasmids in 4T1 cells	316	Amidase Green synthesis of acetohydroxamic acid by thermophilic amidase of <i>Bacillus smithii</i> IIMB2907	373
5'-Nucleotidase Correlation of uric acid levels and purine metabolism enzyme activities in plasma and liver tissues of diabetic rats	433	Amino acid Applications of serum amino acid levels in identification of cancer	53
Acetohydroxamic acid Green synthesis of acetohydroxamic acid by thermophilic amidase of <i>Bacillus smithii</i> IIMB2907	373	Aminoguanidine Synthesis and antibacterial activity evaluation of aminoguanidine or dihydrotriazine derivatives	301
Acetylcholinesterase Evaluation of acetylcholinesterase and butyrylcholinesterase inhibitory activity of Huperzine-A; <i>in silico</i> and <i>in vitro</i> studies	224	Antiadhesive Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384
Acid black 52 Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309	Anti-aging Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137
<i>Acinetobacter baumannii</i> <i>In silico</i> and <i>in vitro</i> analysis of quorum quenching active phytochemicals from the ethanolic extract of medicinal plants against quorum sensing mediated virulence factors of <i>Acinetobacter baumannii</i>	276	Antibacterial activities Synthesis and antibacterial activity evaluation of aminoguanidine or dihydrotriazine derivatives	301
Action of heat Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage	214	Antibacterial effect Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169
Acute Toxicity Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230	Anticancer activity Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132
Acyl homoserine lactone (Ahl) Synthase <i>In silico</i> and <i>in vitro</i> analysis of quorum quenching active phytochemicals from the ethanolic extract of medicinal plants against quorum sensing mediated virulence factors of <i>Acinetobacter baumannii</i>	276	Anticancer The pharmacological potential of hesperidin	287
Adenosine deaminase Correlation of uric acid levels and purine metabolism enzyme activities in plasma and liver tissues of diabetic rats	433	Antidiabetic The pharmacological potential of hesperidin	287
		Antifungal activities Synthesis and antibacterial activity evaluation of aminoguanidine or dihydrotriazine derivatives	301
		Antimicrobial The pharmacological potential of hesperidin	287
		Antioxidant Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230

Waterlogging tolerance in black gram [<i>Vigna mungo</i> (L.) Hepper] is associated with chlorophyll content and membrane integrity	81	Bioactive potential	
Anti-phytopathogenic		Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392
Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162	Bioavailability	
Anti-schistosomal		Future prospects of fermentation in unani based drugs	347
Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57	Biochemical parameters	
<i>Apple chlorotic leaf spot virus</i> (ACLSV)		Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70
Genome cloning and genetic diversity of <i>Apple chlorotic leaf spot virus</i>	514	Biochemical	
<i>Arabidopsis thaliana</i> L.	20	Determination of fruit quality of calcium carbide induced ripening in mango (<i>Mangifera indica</i> L. cv. Alphonso) by physiological, biochemical, bio-enzymatic and elemental composition analysis (EDX)	205
Three dimensional structure prediction and ligand-protein interaction study of expansin protein ATEXPA23 from <i>Arabidopsis thaliana</i> L.		Biocompatibility	
<i>Arthrospira platensis</i>		Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230
Effect of <i>Arthrospira platensis</i> against Sodium fluoride induced haematological alternations	455	Biofertilizers	
<i>Aspergillus niger</i>		Molasses growth medium for production of <i>Rhizobium</i> sp. based biofertilizer	378
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	Bioflavour	
Pharmacological studies of Zinc oxide Nanoparticles	500	Production of Bioflavour from Microbial Sources and its health benefits	352
ATEXPA23		Biofuel	
Three dimensional structure prediction and ligand-protein interaction study of expansin protein ATEXPA23 from <i>Arabidopsis thaliana</i> L.	20	Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309
Atom-to-atom pathways		Bioinoculant	
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46	Molasses growth medium for production of <i>Rhizobium</i> sp. based biofertilizer	378
<i>Bacillus licheniformis</i>		Biomonitoring	
Production of Bioflavour from Microbial Sources and its health benefits	352	Impact of electroplating industry effluent on the electrophoretic protein pattern of serum in the freshwater fish <i>Cyprinus carpio</i>	460
<i>Bacillus smithii</i> IIMB2907		Bioreduction	
Green synthesis of acetohydroxamic acid by thermophilic amidase of <i>Bacillus smithii</i> IIMB2907	373	Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132
<i>Bacillus subtilis</i>		Biorefineries	
Pharmacological studies of Zinc oxide Nanoparticles	500	Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399
Beryllium body burden		Biosurfactant	
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70	Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384
Binary		Black gram	
Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358	Waterlogging tolerance in black gram [<i>Vigna mungo</i> (L.) Hepper] is associated with chlorophyll content and membrane integrity	81
Binding		Box-Behnken design (BBD)	
<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506	Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399

Breast cancer cell lines		CH- π interaction	
Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132	Three dimensional structure prediction and ligand-protein interaction study of expansin protein ATEXPA23 from <i>Arabidopsis thaliana</i> L.	20
Butyrylcholinesterase		<i>Cicer arietinum</i> L.	
Evaluation of acetylcholinesterase and butyrylcholinesterase inhibitory activity of Huperzine-A; <i>in silico</i> and <i>in vitro</i> studies	224	Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117
<i>Cajanus cajan</i> L.		Circular dichroism spectrum	
Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245	Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117
Effect of different carbon, nitrogen and vitamin sources on exopolysaccharide production of three <i>Rhizobium</i> species isolated from root nodule of redgram	86	Circular dichroism	
Calcium carbide		Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185
Determination of fruit quality of calcium carbide induced ripening in mango (<i>Mangifera indica</i> L. cv. Alphonso) by physiological, biochemical, bio-enzymatic and elemental composition analysis (EDX)	205	Cisplatin	
Cancer identification		Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57
Applications of serum amino acid levels in identification of cancer	53	Citronella	
Cancer therapy		Production of Bioflavour from Microbial Sources and its health benefits	352
Free radicals and antioxidants in normal versus cancerous cells — An overview	7	<i>Citrus limon</i> (L.)	
<i>Cannabis</i>		Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269
<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506	Clove	
Carboxymethyl cellulose (CMC)		Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269
Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125	Cognition	
Ca _v channels		Evaluation of acetylcholinesterase and butyrylcholinesterase inhibitory activity of Huperzine-A; <i>in silico</i> and <i>in vitro</i> studies	224
Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193	<i>Coleus aromaticus</i>	
Cellulose nanoparticle		Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	<i>Coleus forskohlii</i>	
Cellulolytic enzyme		Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392
Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399	Colorectal cancer	
Chitosan		High expression of nucleophosmin is closely related to the grade and invasion of colorectal cancer	420
Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358	Column chromatography	
Chlorophyll		Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162
Waterlogging tolerance in black gram [<i>Vigna mungo</i> (L.) Hepper] is associated with chlorophyll content and membrane integrity	81	Competitive/non-competitive inhibition	
Cholesterol		Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117
Cholesterol lowering and antioxidant potential of probiotic bacteria isolated from locally fermented milk product <i>kalarei</i>	363	Computational analysis	
		<i>In silico</i> characterization of structural and functional impact of the deleterious SNPs on FSHR gene	492
		Cumin	
		Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269

Curcumin		Differential scanning calorimetry (DSC)	
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70	<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506
Cyanoabacteria		Differential thermal analysis (DTA)	
Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309	Metallopharmaceuticals: Synthesis, characterization and bio-active studies	325
<i>Cyprinus carpio</i>		Dihydrotriazine	
Impact of electroplating industry effluent on the electrophoretic protein pattern of serum in the freshwater fish <i>Cyprinus carpio</i>	460	Synthesis and antibacterial activity evaluation of aminoguanidine or dihydrotriazine derivatives	301
Cystoliths		Dimethyl Sulfoxide (DMSO)	
Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144	Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392
Cytochrome c		DNA damage	
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46	Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome	155
Cytokines		Dye	
<i>In silico</i> interaction of hesperidin with some immunomodulatory targets: A docking analysis	28	Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309
Cytotoxicity		Dynamic simulation	
Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137	Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185
Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392	EDS	
Metallopharmaceuticals: Synthesis, characterization and bio-active studies	325	Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144
Synthesis and antibacterial activity evaluation of aminoguanidine or dihydrotriazine derivatives	301	Ehrlich ascites	
Decay percentage		Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57
Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269	Electrolyte leakage	
Degradation		Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269
Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309	Electron microscopy	
Delocalized electron units		Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46	Electron transfer	
Diabetes		Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150	Electroplating Industrial Effluent	
Correlation of uric acid levels and purine metabolism enzyme activities in plasma and liver tissues of diabetic rats	433	Impact of electroplating industry effluent on the electrophoretic protein pattern of serum in the freshwater fish <i>Cyprinus carpio</i>	460
Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125	Elemental composition analysis (EDX)	
Dietary antioxidants		Determination of fruit quality of calcium carbide induced ripening in mango (<i>Mangifera indica</i> L. cv. Alphonso) by physiological, biochemical, bio-enzymatic and elemental composition analysis (EDX)	205
Oleuropein and oleic acid: A novel emerging dietary target for human chronic diseases	263	<i>Emerita asiatica</i>	
		Impact of sand organic carbon and climatic changes on the population density and morphometric characters of <i>Emerita asiatica</i> in the East Coast of Southern India	240

Emulsification		Extreme dilutions	
Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384	<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506
Encapsulation		Fermentation	
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	Future prospects of fermentation in unani based drugs	347
Endophytes		Flavonoid	
Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392	Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137
Endotoxemia		Follicle stimulating hormone receptor (FSHR)	
Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445	<i>In silico</i> characterization of structural and functional impact of the deleterious SNPs on FSHR gene	492
<i>Enterococcus faecalis</i>		Free water	
K2 Cholesterol lowering and antioxidant potential of probiotic bacteria isolated from locally fermented milk product <i>kalarei</i>	363	<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506
Enzyme cocktail		Gas chromatography	
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162
Enzyme kinetics		<i>Geitlerinema</i> sp	
Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase	105	Coupling dye degradation and biodiesel production by <i>Geitlerinema</i> sp TRV27	309
Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117	Genetic diversity	
Enzyme stability		Genome cloning and genetic diversity of <i>Apple chlorotic leaf spot virus</i>	514
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	Genome clone	
Epithelial cells		Genome cloning and genetic diversity of <i>Apple chlorotic leaf spot virus</i>	514
Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells	466	Genotoxicity	
EPS		Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169
Effect of different carbon, nitrogen and vitamin sources on exopolysaccharide production of three <i>Rhizobium</i> species isolated from root nodule of redgram	86	<i>Geotrichum fragans</i>	
<i>Escherichia coli</i>		Production of Bioflavour from Microbial Sources and its health benefits	352
Pharmacological studies of Zinc oxide Nanoparticles	500	Geraniol	
Essential oils		Production of Bioflavour from Microbial Sources and its health benefits	352
Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269	Ghrelin	
<i>Euphorbia hirta</i> L.		Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193
Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132	Green synthesis	
Exopolysaccharide		Green synthesis of acetohydroxamic acid by thermophilic amidase of <i>Bacillus smithii</i> IIMB2907	373
Effect of different carbon, nitrogen and vitamin sources on exopolysaccharide production of three <i>Rhizobium</i> species isolated from root nodule of redgram	86	Glycolipoprotein	
		Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384
		Glycosides	
		Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137
		Halotolerant	
		Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384

HbA1c		Hypercholesterolemia	
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150	Cholesterol lowering and antioxidant potential of probiotic bacteria isolated from locally fermented milk product <i>kalarei</i>	363
Heat shock		Hyperhomocysteinemia	
Mild and transient heat shock enhances DNA integration following lipofection of recombinant plasmids in 4T1 cells	316	Methylenetetrahydrofolate reductase gene (C677T and A1298C) polymorphisms and hyperhomocysteinemia as risk factors for Myocardial Infarction	321
Hematological profile		Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150
Effect of <i>Arthrospira platensis</i> against Sodium fluoride induced haematological alternations	455	Immobilization	
Heme biosynthesis		Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70	Immunomodulatory	
Hepatorenal		<i>In silico</i> interaction of hesperidin with some immunomodulatory targets: A docking analysis	28
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70	<i>In silico</i>	
Hesperidin		<i>In silico</i> and <i>in vitro</i> analysis of quorum quenching active phytochemicals from the ethanolic extract of medicinal plants against quorum sensing mediated virulence factors of <i>Acinetobacter baumannii</i>	276
<i>In silico</i> interaction of hesperidin with some immunomodulatory targets: A docking analysis	28	Inflammation	
The pharmacological potential of hesperidin	287	<i>In silico</i> interaction of hesperidin with some immunomodulatory targets: A docking analysis	28
Homeopathic medicine		Insulin	
<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506	Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193
Homocysteine		Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150	Isoform	
Homogentisic acid		Cloning and sequencing of α -2u globulin of rat preputial gland to assess its longevity in the context of developing an effective rodent trap	
Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants	484	Isothermal calorimetry (ITC)	
Human lysyl oxidase		<i>Cannabis</i> as homeopathic medicine in extreme dilutions: Thermal analysis for their differentiation and action on a protein	506
Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase	105	<i>Jawarishat</i>	
Human serum albumin		Future prospects of fermentation in unani based drugs	347
Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185	<i>Kalarei</i>	
Huperzine-A		Cholesterol lowering and antioxidant potential of probiotic bacteria isolated from locally fermented milk product <i>kalarei</i>	363
Evaluation of acetylcholinesterase and butyrylcholinesterase inhibitory activity of Huperzine-A; <i>in silico</i> and <i>in vitro</i> studies	224	Kurds	
Hydrogel		Methylenetetrahydrofolate reductase gene (C677T and A1298C) polymorphisms and hyperhomocysteinemia as risk factors for Myocardial Infarction	321
Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125	Lactate	
Hydrogen bonds		Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46		

Lactones		Mass spectrometry	
Isolation, identification and bioactive potential of bacterial endophytes from <i>Coleus</i>	392	Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162
Laser radiation		Mediterranean diet	
Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage	214	Oleuropein and oleic acid: A novel emerging dietary target for human chronic diseases	263
LebZIP2		Membrane stability	
Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants	484	Waterlogging tolerance in black gram [<i>Vigna mungo</i> (L.) Hepper] is associated with chlorophyll content and membrane integrity	81
Leptin		Metabolic acidosis	
Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193	Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445
Lipid peroxidation		Metabolic syndrome	
Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome	155	Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome	155
Lipin1		Methyl salicylate	
Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells	466	Production of Bioflavour from Microbial Sources and its health benefits	352
Lipofection		Methylenetetrahydrofolate reductase	
Mild and transient heat shock enhances DNA integration following lipofection of recombinant plasmids in 4T1 cells	316	Methylenetetrahydrofolate reductase gene (C677T and A1298C) polymorphisms and hyperhomocysteinemia as risk factors for Myocardial Infarction	321
Lipopolysaccharide (LPS)		Microalbuminuria	
Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445	Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150
L-methionine-S		Microbial biomass carbon (MBC)	
Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success	427	Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245
Long-lived reactive protein species		Microbial biomass nitrogen (MBN)	
Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage	214	Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245
Low-intensity laser irradiation		Microbial diversity	
Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage	214	Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245
Machine learning algorithms		Mineral phase	
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150	Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144
Magnesium		Minimum bactericidal concentration (MBC)	
Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445	Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169
Majoona		Minimum inhibitory concentration (MIC)	
Future prospects of fermentation in unani based drugs	347	Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169
MALDI-TOF-MS		Molasses	
Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells	466	Molasses growth medium for production of <i>Rhizobium</i> sp. based biofertilizer	378

Molecular docking		NPM1	
Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185	High expression of nucleophosmin is closely related to the grade and invasion of colorectal cancer	420
Three dimensional structure prediction and ligand-protein interaction study of expansin protein ATEXPA23 from <i>Arabidopsis thaliana</i> L.	20	Nucleophosmin	
		High expression of nucleophosmin is closely related to the grade and invasion of colorectal cancer	420
Molecular modeling		<i>Olea europaea</i> L.	
Three dimensional structure prediction and ligand-protein interaction study of expansin protein ATEXPA23 from <i>Arabidopsis thaliana</i> L.	20	Oleuropein and oleic acid: A novel emerging dietary target for human chronic diseases	263
Molecular simulation		Oleic acid	
Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185	Oleuropein and oleic acid: A novel emerging dietary target for human chronic diseases	263
<i>Moringa oleifera</i> Lam.	70	Oleuropein	
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats		Oleuropein and oleic acid: A novel emerging dietary target for human chronic diseases	263
Multiple linear regression		Organ protection	
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150	The pharmacological potential of hesperidin	287
Myocardial infarction		Ovarian regulation	
Methylenetetrahydrofolate reductase gene (C677T and A1298C) polymorphisms and hyperhomocysteinemia as risk factors for Myocardial Infarction	321	<i>In silico</i> characterization of structural and functional impact of the deleterious SNPs on FSHR gene	492
		Overexpression	
		Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells	466
		Oxidative stress	
		Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage	214
		Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome	155
Nano silver particles			
Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269	Peppermint	
Nanocatalyst		Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269
Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475	Perfluorohexadecanoic acid	
Nanoparticles		Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185
Pharmacological studies of Zinc oxide Nanoparticles	500	<i>Phanerochaete chrysosporium</i>	
Na _v channels		Encapsulation of fungal extracellular enzyme cocktail in cellulose nanoparticles: Enhancement in enzyme stability	475
Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193	Pharmaceutical, Therapeutic	
Neuroblastoma cell lines		Future prospects of fermentation in unani based drugs	347
Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132	Phenol	
Nitric oxide		Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162
<i>In silico</i> interaction of hesperidin with some immunomodulatory targets: A docking analysis	28	Phenolic compounds	
Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34	Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants	484
Nootkatone			
Production of Bioflavour from Microbial Sources and its health benefits	352		

Pheromone binding protein			
Cloning and sequencing of α -2u globulin of rat preputial gland to assess its longevity in the context of developing an effective rodent trap			
Piperine			
Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70		
Phycocyanin			
Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230		
Physiological			
Determination of fruit quality of calcium carbide induced ripening in mango (<i>Mangifera indica</i> L. cv. Alphonso) by physiological, biochemical, bio-enzymatic and elemental composition analysis (EDX)	205		
Pigment			
Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230		
Plant growth promoting rhizobacteria (PGPR)			
Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245		
Polar side chains			
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein	46		
Polyphenols			
Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137		
Population density			
Impact of sand organic carbon and climatic changes on the population density and morphometric characters of <i>Emerita asiatica</i> in the East Coast of Southern India	240		
Potential susceptible carbocyanine probes			
Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34		
Praziquantel			
Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57		
Preputial gland			
Cloning and sequencing of α -2u globulin of rat preputial gland to assess its longevity in the context of developing an effective rodent trap	433		
Probiotics			
Cholesterol lowering and antioxidant potential of probiotic bacteria isolated from locally fermented milk product <i>kalarei</i>	363		
Protein carbonyl			
Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome		155	
Proteomics			
Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells		466	
Protocatechuic acid			
Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants		484	
<i>Pseudomonas fluorescens</i>			
Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1		162	
Pulmonary and extra-pulmonary tuberculosis			
Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success		427	
Quorum quenching			
<i>In silico</i> and <i>in vitro</i> analysis of quorum quenching active phytochemicals from the ethanolic extract of medicinal plants against quorum sensing mediated virulence factors of <i>Acinetobacter baumannii</i>		276	
R sulfoximine			
Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success		427	
Rabbits			
Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study		445	
RanBP1			
Proteomic changes in response to lipin1 overexpression in 293T human renal epithelial cells		466	
Raphides			
Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species		144	
Rat trap			
Cloning and sequencing of α -2u globulin of rat preputial gland to assess its longevity in the context of developing an effective rodent trap			
Reactive oxygen species (ROS)			
Free radicals and antioxidants in normal versus cancerous cells — An overview Reactive oxygen		7	
Formation of long-lived reactive products in blood serum under heat treatment and low-intensity laser irradiation, their role in hydrogen peroxide generation and DNA damage		214	
Recombinant mLOX			
Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase		105	
Redox-dependent			
Pathways linked by hydrogen bonds with redox-dependent breaks implicated in electron transfer in human cytochrome c protein		46	

Response surface methodology		Serum glutamine synthetase	
Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399	Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success	427
Reusability		Serum proteins	
Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358	Impact of electroplating industry effluent on the electrophoretic protein pattern of serum in the freshwater fish <i>Cyprinus carpio</i>	460
Rhamnolipids		Sex-ratio	
Production and characterization of biosurfactant from <i>Halomonas</i> sp. BRI3	384	Impact of sand organic carbon and climatic changes on the population density and morphometric characters of <i>Emerita asiatica</i> in the East Coast of Southern India	240
<i>Rhizobium</i>		Silver nanoparticles	
Effect of different carbon, nitrogen and vitamin sources on exopolysaccharide production of three <i>Rhizobium</i> species isolated from root nodule of redgram	86	Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132
Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245	Assessment of peppermint, clove, cumin essential oils and silver nano particles on biochemical and shelf life of <i>Citrus limon</i> (L.)	269
Molasses growth medium for production of <i>Rhizobium</i> sp. based biofertilizer	378	Single nucleotide polymorphism (SNPs)	
Riboflavin		<i>In silico</i> characterization of structural and functional impact of the deleterious SNPs on FSHR gene	492
Metallopharmaceuticals: Synthesis, characterization and bio-active studies	325	Smooth muscle	
Root nodule		Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34
Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245	Sodium fluoride	
Effect of different carbon, nitrogen and vitamin sources on exopolysaccharide production of three <i>Rhizobium</i> species isolated from root nodule of redgram	86	Effect of <i>Arthrospira platensis</i> against Sodium fluoride induced haematological alternations	455
Salgam		Spectroscopy and structure stability	
Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169	Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase	105
Salt tolerance		Spectroscopy	
Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245	Molecular simulation and spectroscopic studies on the interaction between perfluorohexadecanoic acid and human serum albumin	185
Sand organic carbon		<i>Spirulina platensis</i>	
Impact of sand organic carbon and climatic changes on the population density and morphometric characters of <i>Emerita asiatica</i> in the East Coast of Southern India	240	Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230
Schistosomiasis		<i>Spirulina</i>	
Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57	Effect of <i>Arthrospira platensis</i> against Sodium fluoride induced haematological alternations	455
Selection pressure		Stable transfection	
Genome cloning and genetic diversity of <i>Apple chlorotic leaf spot virus</i>	514	Mild and transient heat shock enhances DNA integration following lipofection of recombinant plasmids in 4T1 cells	316
Sepsis		Stress tolerance	
Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445	Acid and salt tolerance behavior of <i>Rhizobium</i> isolates and their effect on microbial diversity in the rhizosphere of redgram (<i>Cajanus cajan</i> L.)	245
Serine protease inhibitor			
Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117		

<i>Strobilanthes</i>		Ultraviolet Haematogenous Oxidation Therapy (UV-C HOT)	
Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144	Ultraviolet-C haematogenous oxidation therapy of lipopolysaccharide-induced endotoxemia in a rabbit model: A biochemical study	445
Submerged fermentation		Ultramorphology	
Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399	Protective potential of <i>Moringa oleifera</i> Lam. along with curcumin and piperine against beryllium-induced alterations in hepatorenal biochemistry and ultramorphology in rats	70
Superoxides		Uncorrelated linear discriminant analysis (ULDA)	
Free radicals and antioxidants in normal versus cancerous cells — An overview Reactive oxygen	7	Applications of serum amino acid levels in identification of cancer	53
T1 transgenic plants		Uterus	
Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants	484	Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34
t-cinnamic acid		Vero cells	
Changes of phenolic compounds in LebZIP2-overexpressing transgenic plants	484	Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132
<i>Thermoascus aurantiacus</i>		Virulence factors	
Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399	<i>In silico</i> and <i>in vitro</i> analysis of quorum quenching active phytochemicals from the ethanolic extract of medicinal plants against quorum sensing mediated virulence factors of <i>Acinetobacter baumannii</i>	276
Thermodynamic		Voltage-gated Na ⁺ and Ca ²⁺	
Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125	Ghrelin and Leptin increase voltage-gated Na ⁺ and Ca ²⁺ currents in the RIN-m5f insulin-producing cell line	193
<i>Thermomyces lanuginosus</i> lipase		Waterlogging	
Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358	Waterlogging tolerance in black gram [<i>Vigna mungo</i> (L.) Hepper] is associated with chlorophyll content and membrane integrity	81
Thermophilic amidase		Whitening	
Green synthesis of acetohydroxamic acid by thermophilic amidase of <i>Bacillus smithii</i> IIMB2907	373	Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137
Thermophilic Fungus		Wistar model	
Optimization of cellulolytic enzyme production by thermophilic fungus <i>Thermoascus aurantiacus</i> using response surface methodology	399	Potential antioxidative protein-pigment complex <i>Spirulina platensis</i> mediated food grade phycocyanin C -Extraction, purification, antioxidative activity and biocompatibility	230
Thermostability		Worm burden	
Binary immobilization: a newer approach for immobilizing lipase from a thermophilic sp. of <i>Thermomyces lanuginosus</i>	358	Cisplatin augments the anti-schistosomal effect of praziquantel in a schistosoma-infected cancer model	57
Transfer reaction		Xanthine oxidase	
Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success	427	Correlation of uric acid levels and purine metabolism enzyme activities in plasma and liver tissues of diabetic rats	433
Transmembrane potential		Xenobiotic	
Nitric oxide induced polarization of myometrium cells plasmalemma revealed by application of fluorescent dye 3,3'-dihexyloxacarbocyanine	34	Free radicals and antioxidants in normal versus cancerous cells — An overview Reactive oxygen	7
Trypsin/chymotrypsin inhibitor			
Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117		
Two-dimensional LC/MS/MS			
High expression of nucleophosmin is closely related to the grade and invasion of colorectal cancer	420		

XRD		α -2u globulin	
Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144	Cloning and sequencing of α -2u globulin of rat preputial gland to assess its longevity in the context of developing an effective rodent trap	433
Yeast extract mannitol agar (YEMA)		γ -glutamyl hydroxamate-Fe ⁺³ complex	
Molasses growth medium for production of <i>Rhizobium</i> sp. based biofertilizer	378	Serum glutamine synthetase activity as biomarker for tuberculosis diagnosis and monitoring anti-tubercular drug therapy success	427
Zinc oxide			
Pharmacological studies of Zinc oxide Nanoparticles	500		